Working in a broad partnership in the Kenya Miniwind Project

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Kenya Miniwind

Long term objective

To stimulate economic growth, poverty reduction, and sustainable energy supply in rural areas in Kenya.

The immediate objective

To create **local employment** and **reduce the cost of electricity** which will favour disadvantaged communities in rural areas :

- by facilitating partly **local production** of low-cost wind turbines and
- by demonstrating integration of these turbines in private and publically owned mini-grids in Kenya.

Impact

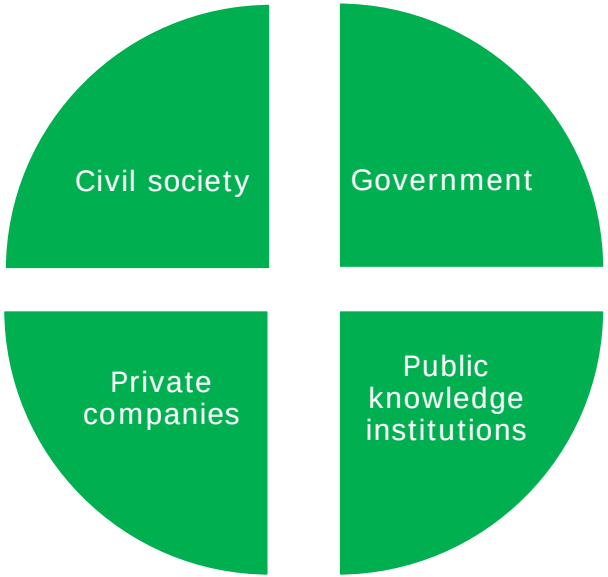
The project will contribute to Global Sustainable Development Goal (SDG) 8 through **stimulated economic growth** in rural communities and in an labour-intensive wind energy sector

In addition, the project will contribute to SDG1, SDG2, SDG3, SDG4 SDG7 and SDG9.

Vestas V 15 55 kW

Public private collaboration

Sustainable Energy



- Rural Electrification Agency

- Ministry of Energy
- Energy Regulatory Commision

- Mini-grid developers
- Wind turbine developer (Vestas)
- Local suppliers

- Kenya Climate Innovation Centre
- Technical University of Denmark
  - Unep DTU
  - DTU Wind
  - DTU Electro

Project outputs

- Enabling framework and market creation for mini grids with wind power supported by relevant Kenyan authorities
  - Market study, enabling frameworks, need for standards
- Local community requirements to mini-grids with wind power
  - Feasibility studies, community dialogue, model for expansion
- Capacity of mini-grid developers and local SMEs to integrate and produce wind turbines enhanced
  - Partly local production, suppliers, decission making tool, training of stakeholders
- Wind turbine designed, demonstrated and tested
  - Vestas design, demonstration, business model, contracting, maintenance, monitoring.

So why should we engage in this as a university ?

Part of DTU's strategy

- Scientific advice to national authorities
- Innovation and industry collaboration
- Sustainable development goals

What we already do: (research and advice)

- Policy frameworks, modelling, planning
  - RE, Mini-grids
- Wind mapping, modelling
- Smart grids, RE-integration
- Working with industry, governments, Universities and NGOs
- Working across departments (REPLI)

What is new ?

- Working under leadership of a Danish NGO
- Working with a private company in a developing country context
- Being close to implementation in developing countries

What are the benefits ?

- Bringing research into practice
- Bringing practice into research
- Bringing different cultures and perspectives together
- Great potentials to make a difference


Thanks for your attention